L Numbe	r Hits	S Search Text		
2	97125		DB	Time stamp
	1		USPAT;	2002/01/15 09:14
	İ		ÉPO; JPO; DERWENT	
3	8	resveratrol and bone	USPAT;	2002/01/15 00 10
			EPO; JPO;	2002/01/15 08:49
1.			DERWENT	
4	1	9966913.pn.	USPAT;	2002/01/15 06:27
1			EPO; JPO;	2002/01/13 08:27
5	554		DERWENT	
3	554	genistein	USPAT;	2002/01/15 06:47
ļ			EPO; JPO;	, ==, == 33121
6	4	resveratrol and genistein	DERWENT	.
	1	resveración and genistein	USPAT;	2002/01/15 06:47
			EPO; JPO;	
7	19375	ischem\$	DERWENT	
1			USPAT;	2002/01/15 07:14
	,		EPO; JPO; DERWENT	
8	9	ischem\$ and resveratrol	USPAT;	2002/01/15 05 1
			EPO; JPO;	2002/01/15 07:14
	İ		DERWENT	
9	2	5747536.pn.	USPAT;	2002/01/15 07:25
			EPO; JPO;	2002/01/13 07:25
10		1.0	DERWENT	1
1 10	3	4346107.pn.	USPAT;	2002/01/15 07:25
			EPO; JPO;	31, 31, 13 0, .25
11	29429	hypertension	DERWENT	
	23423	hypercension	USPAT;	2002/01/15 09:26
			EPO; JPO;	
12	7.	hypertension and resveratrol	DERWENT	
		Tr and resveration	USPAT;	2002/01/15 07:26
			EPO; JPO;	
13	4	3624162.pn.	DERWENT USPAT;	2000/07/77
			EPO; JPO;	2002/01/15 08:30
1.4		'	DERWENT	
14	8	3624162.URPN.	USPAT;	2002/01/15 08:24
			EPO; JPO;	2002/01/15 08:24
15	109	\$resveratrol	DERWENT	
-0	109	\$1esveratro1	USPAT;	2002/01/15 08:31
		•	EPO; JPO;	
16	1	\$resveratrol not resveratrol	DERWENT	
		tesveration	USPAT;	2002/01/15 08:31
			EPO; JPO;	
1	108	resveratrol	DERWENT	0000/05/55
]		USPAT; EPO; JPO;	2002/01/15 08:31
17	1		DERWENT	
17	46	("424/766").CCLS.	USPAT;	2002/01/15 09:07
			EPO; JPO;	
18	179	("569/720") GOT C	DERWENT	
	1/9	("568/729").CCLS.	USPAT;	2002/01/15 09:10
			EPO; JPO;	
20	0	bone and (("568/729").CCLS.)	DERWENT	1
			USPAT;	2002/01/15 09:10
			EPO; JPO;	
21	65	514/733.ccls.	DERWENT USPAT;	
			EPO; JPO;	2002/01/15 09:15
			DERWENT	
22	10	\$resveratrol and 514/733.ccls.	USPAT;	2002/01/15 09:15
			EPO; JPO;	2002/01/13 03:12
23	_		DERWENT	
23	5	5747536.URPN.	USPAT;	2002/01/15 09:17
			EPO; JPO;	
24	7 1	hypertengion and described	DERWENT	
l	′1'	hypertension and \$resveratrol	USPAT;	2002/01/15 09:26
	1		EPO; JPO;	
			DERWENT	

	Туре	e L	# Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
					USPAT	l .		
1	BRS	L2	97125	bone	; EPO; JPO; DERWE NT	09:14		
2	BRS	L3	8	l1 and l2	USPAT; EPO; JPO; DERWE	2002/01/15 08:49	·	
3	BRS	L4	1	9966913.pn.	USPAT; EPO;	2002/01/15 06:27		
4	BRS	L5	554	genistein	USPAT; EPO; JPO; DERWE NT	2002/01/15 06:47		
5	BRS	L6	4	l1 and 15		2002/01/15 06:47		
6	BRS	L 7	19375	ischem\$		2002/01/15 07:14		
7	BRS	L8	9	17 and 11	JPO; DERWE NT	2002/01/15 07:14		
8	BRS	L9	2	5747536.pn.		2002/01/15 07:25 ·		
9	BRS	L10	3	4346107.pn.	JPO; C DERWE NT	2002/01/15 07:25		
10	BRS	L11	29429	nypertension	USPAT; EPO; 2 JPO; 0 DERWE NT	002/01/15 9:26	· ·	

1		E1
2		0
3		0
4)
5	0	
6	0	
8	0	
9	0	
10	0	

	Тур	e L	# Hit:	Search Text	DBs	Time Stamp	Comments	Error	Definition
1	1 BRS	L12	7	l11 and l1	USPAT ; EPO; JPO; DERWE	2002/01/15 07:26			
1:	2 BRS	L13	4	3624162.pn.	USPAT; EPO; JPO; DERWE	2002/01/15 08:30			
13	B BRS	L14	8	3624162.URPN.	USPAT; ; EPO; JPO; DERWE NT	2002/01/15 08:24			
14	BRS	L15	109	\$resveratrol	USPAT; EPO; JPO; DERWE NT	2002/01/15 08:31			
15	BRS	L16	1	l15 not l1		2002/01/15 08:31		,	
16	BRS	L1	108	resveratrol		2002/01/15 08:31			
17	IS&R	L17	46	("424/766").CCLS.	USPAT; ; EPO; JPO; DERWE NT	2002/01/15 09:07			·
18	IS&R	L18	179	("568/729").CCLS.		2002/01/15 09:10			· ·
19	BRS	L20	0	12 and 118		2002/01/15 09:10			,
20	BRS	L21	65	514/733.ccls.		2002/01/15 09:15			

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11	0
12	0
13	0
14)
15 0	-
16 0	
17 0	
18 0	
19 0	
20 0	

	Туре	L #	Hits	Search Text	DBs	Time	Stamp	Comments	Error	Definition
21	BRS	L22	10	115 and 121	USPAT; EPO; JPO; DERWE NT	2002/ 09:15				
22	BRS	L23	5	5747536.URPN.	USPAT; ; EPO; JPO; DERWE NT	2002/ 09:17	01/15			
23	BRS	L24	7	ll1 and l15		2002/0 09:26	01/15			

		Err
		ors
	21	0
	22	0
	23	0
- 1		1

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LOGINID:ssspta1623paz
PASSWORD:
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                  Web Page URLs for STN Seminar Schedule - N. America
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                  Engineering Information Encompass files have new names
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                  TOXLINE no longer being updated
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                  Search Derwent WPINDEX by chemical structure
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          Apr 23
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                  DWPI and DPCI
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                  MEDLINE
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         Aug 23
                  PAGE IMAGES FOR 1947-1966 RECORDS IN CAPLUS AND CA
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                 Adis Newsletters (ADISNEWS) now available on STN
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                 IMSworld Pharmaceutical Company Directory name change
                  to PHARMASEARCH
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                 Korean abstracts now included in Derwent World Patents
         Oct 09
                  Index
                 Number of Derwent World Patents Index updates increased
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         Oct 09
NEWS 16
         Oct 15
                 Calculated properties now in the REGISTRY/ZREGISTRY File
NEWS 17
         Oct 22
                 Over 1 million reactions added to CASREACT
NEWS 18 Oct 22
                 DGENE GETSIM has been improved
NEWS 19 Oct 29
                 AAASD no longer available
NEWS 20 Nov 19
                 New Search Capabilities USPATFULL and USPAT2
NEWS 21 Nov 19
                 TOXCENTER(SM) - new toxicology file now available on STN
NEWS 22 Nov 29
                 COPPERLIT now available on STN
NEWS 23 Nov 29 DWPI revisions to NTIS and US Provisional Numbers
NEWS 24 Nov 30 Files VETU and VETB to have open access
NEWS 25 Dec 10
                 WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002
NEWS 26 Dec 10 DGENE BLAST Homology Search
NEWS 27
         Dec 17
                 WELDASEARCH now available on STN
NEWS 28
         Dec 17
                 STANDARDS now available on STN
NEWS 29
         Dec 17 New fields for DPCI
NEWS 30
         Dec 19
                 CAS Roles modified
NEWS 31 Dec 19 1907-1946 data and page images added to CA and CAplus
NEWS EXPRESS August 15 CURRENT WINDOWS VERSION IS V6.0c,
              CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP),
             AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001
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=> file reg
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FULL ESTIMATED COST

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```
=> e genistein/cn
Ε1
             1
                    GENISTA SCOPARIA, EXT./CN
E2
             1
                    GENISTA TINCTORIA, EXT./CN
E.3
             1 --> GENISTEIN/CN
E.4
                   GENISTEIN .BETA.-CYCLODEXTRIN 1:1 COMPLEX/CN
E5
                   GENISTEIN 4',7-BIS (HEMISUCCINATE)/CN
                   GENISTEIN 4',7-DI-.ALPHA.-L-RHAMNOSIDE/CN
E6
E7
                   GENISTEIN 4',7-DI-.BETA.-D-GLUCOPYRANOSIDE/CN
             1
             1
                   GENISTEIN
4',7-DI-O-(TRI-O-ACETYL-.ALPHA.-L-RHAMNOPYRANOSIDE
                   )/CN
             1
                   GENISTEIN
4',7-DI-O-(TRI-O-ACETYL-.BETA.-L-QUINOVYLPYRANOSID
                   E)/CN
E10
                   GENISTEIN 4',7-DI-O-.BETA.-D-GLUCOSIDE/CN
             1
E11
             1
                   GENISTEIN 4',7-DIGLUCOSIDE/CN
E12
             1
                   GENISTEIN 4',7-DIOLEATE/CN
```

```
L1
```

1 GENISTEIN/CN

=> d 11

```
ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
 L1
     446-72-0 REGISTRY
     4H-1-Benzopyran-4-one, 5,7-dihydroxy-3-(4-hydroxyphenyl)- (9CI) (CA
 CN
 INDEX
     NAME)
OTHER CA INDEX NAMES:
     Genistein (6CI)
     Isoflavone, 4',5,7-trihydroxy- (8CI)
CN
OTHER NAMES:
CN
     4',5,7-Trihydroxyisoflavone
     5,7,4'-Trihydroxyisoflavone
CN
CN
     Baichanin A
CN
     C.I. 75610
CN
     Genisteol
CN
     Genisterin
CN
     NPI 031L
CN
     Prunetol
CN
     Sophoricol
FS
     3D CONCORD
MF
     C15 H10 O5
CI
     COM
LÇ
     STN Files:
                 ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*,
       BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS,
       CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU,
DRUGU,
      EMBASE, HODOC*, IPA, MEDLINE, MRCK*, NAPRALERT, NIOSHTIC, PIRA, PROMT,
      RTECS*, SPECINFO, TOXCENTER, TOXLIT, USPATFULL
        (*File contains numerically searchable property data)
    Other Sources: EINECS**, NDSL**, TSCA**
```

(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2358 REFERENCES IN FILE CA (1967 TO DATE)
48 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2370 REFERENCES IN FILE CAPLUS (1967 TO DATE)
34 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file cAPLUS COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
5.90 6.05

FULL ESTIMATED COST

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```
=> e resveratrol/cn
                    RESUSCITATION-PROMOTING FACTOR PROTEIN (MICROCOCCUS LUTEUS
 E1
              1
 S
                    TRAIN JCM-3348)/CN
                    RESUSCITATION-PROMOTING FACTOR PROTEIN (MICROCOCCUS LUTEUS
 E2
              1
 S
                    TRAIN NCIMB-13267)/CN
 E3
              1 --> RESVERATROL/CN
 E4
              1
                    RESVERATROL .BETA.-D-GLUCOSIDE/CN
 E5
              1
                    RESVERATROL 12-C-.BETA.-GLUCOPYRANOSIDE/CN
 E6
                    RESVERATROL 3-O-.BETA.-GLUCOPYRANOSIDE/CN
              1
 E.7
              1
                    RESVERATROL 4'-O-.BETA.-D-GLUCOPYRANOSIDE/CN
 E8
              1
                    RESVERATROL CIS-DEHYDRODIMER/CN
 E9
              1
                    RESVERATROL GLUCOSIDE/CN
 E10
              1
                    RESVERATROL SYNTHASE/CN
 E11
                    RESVERATROL SYNTHASE (PEANUT)/CN
              1
E12
             1
                   RESVERATROL TRANS-DEHYDRODIMER/CN
=> e3
L2
             1 RESVERATROL/CN
=> d 12
     ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
1.2
RN
     501-36-0 REGISTRY
    1,3-Benzenediol, 5-[(1E)-2-(4-hydroxyphenyl)ethenyl]- (9CI) (CA INDEX
     NAME)
OTHER CA INDEX NAMES:
    1,3-Benzenediol, 5-[2-(4-hydroxyphenyl)ethenyl]-, (E)-
CN
     3,4',5-Stilbenetriol (7CI, 8CI)
     Resveratrol (6CI)
OTHER NAMES:
    (E)-5-(p-Hydroxystyryl)resorcinol
CN
CN
     (E)-Resveratrol
CN
     3,5,4'-Trihydroxystilbene
CN
    CA 1201
CN
    trans-Resveratrol
FS
     STEREOSEARCH
    31100-06-8
DR
MF
    C14 H12 O3
CI
    COM
LC
                 ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*,
      BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT,
      CEN, CHEMCATS, CIN, CSCHEM, DDFU, DRUGU, EMBASE, HODOC*, IPA, MEDLINE,
      MRCK*, NAPRALERT, PHAR, PROMT, TOXCENTER, TOXLIT, USPATFULL
        (*File contains numerically searchable property data)
```

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

828 REFERENCES IN FILE CA (1967 TO DATE)

38 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

835 REFERENCES IN FILE CAPLUS (1967 TO DATE)

10 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 5.90 12.29

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```
=> 12
 L3
            832 L2
 => reveratrol
              5 REVERATROL
 => resveratrol
           1048 RESVERATROL
              8 RESVERATROLS
 L5
           1048 RESVERATROL
                  (RESVERATROL OR RESVERATROLS)
 => 13 or 15
          1081 L3 OR L5
 => bone
         127571 BONE
         14967 BONES
         132325 BONE
1.7
                  (BONE OR BONES)
=> 15(1)16
L8
          1048 L5(L)L6
=> 17(1)16
             9 L7(L)L6
=> d 19 1-9 ti
L9 . ANSWER 1 OF 9 CAPLUS COPYRIGHT 2002 ACS
    Effect of polyphenols on calcium content and alkaline phosphatase
activity
     in rat femoral tissues in vitro
```

- L9 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2002 ACS
- TI Inhibition of dioxin effects on **bone** formation in vitro by a newly described aryl hydrocarbon receptor antagonist, **resveratrol**
- L9 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2002 ACS
- TI Phytoestrogen, resveratrol and women's health
- L9 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2002 ACS
- TI Drugs, foods and oral compositions containing stilbene-type compounds
- L9 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2002 ACS
- TI Resveratrol composition useful to treat periodontal disease
- L9 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2002 ACS
- TI Resveratrol attenuates ovariectomy-induced hypertension and bone loss in stroke-prone spontaneously hypertensive rats

- ANSWER 7 OF 9 CAPLUS COPYRIGHT 2002 ACS
- Resveratrol and red wine consumption
- ANSWER 8 OF 9 CAPLUS COPYRIGHT 2002 ACS
- ΤI Resveratrol stimulates the proliferation and differentiation of osteoblastic MC3T3-E1 cells
- ANSWER 9 OF 9 CAPLUS COPYRIGHT 2002 ACS
- TIIs resveratrol an estrogen agonist in growing rats?
- => d 19 6-9 ti fbib abs
- 1.9 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2002 ACS
- Resveratrol attenuates ovariectomy-induced hypertension and TΙ bone loss in stroke-prone spontaneously hypertensive rats
- AN 2000:364790 CAPLUS
- DN 133:99348
- Resveratrol attenuates ovariectomy-induced hypertension and TI bone loss in stroke-prone spontaneously hypertensive rats
- Mizutani, Kenichi; Ikeda, Katsumi; Kawai, Yasuhiro; Yamori, Yukio
- Life Science, Environmental Conservation and Development, Nutritional Medicine, Graduate School of Human and Environmental Studies, Kyoto University, Kyoto, 606-8501, Japan
- J. Nutr. Sci. Vitaminol. (2000), 46(2), 78-83 SO CODEN: JNSVA5; ISSN: 0301-4800
- PB Center for Academic Publications Japan
- DΤ Journal
- LΑ English
- We examd. the effect of resveratrol (3,4',5-trihydroxy stilbene), a phenolic compd. found in the skins of most grapes, on blood pressure and bone loss in ovariectomized (OVX), stroke-prone spontaneously hypertensive rats (SHRSP). Nineteen-week-old female SHRSP were divided into a sham-ovariectomized (sham) group fed a control diet and two OVX groups fed either a control diet (OVX-Cont) or a diet supplemented with resveratrol (5 mg/kg per d: OVX-Resv). Ovariectomy induced significant increases in systolic blood pressure (SBP). Resveratrol lowered the SBP by 15% by the third week of administration, and this effect was maintained throughout the study. Resveratrol treatment also significantly enhanced endothelium-dependent vascular relaxation in response to acetylcholine (ACh) in OVX rats. Finally, femur breaking energies measured for the resveratrol-treated (OVX-Resv) group were significantly higher than those of the resveratrol-untreated (OVX-Cont) group. While no significant differences in calcium, magnesium and phosphorus content were found between the femurs of OVX-Cont and OVX-Resv rats, the femur hydroxy-proline-content in the OVX-Resv group was significantly higher than of the OVX-Cont group. We conclude that, in OVX-SHRSP, resveratrol acts by a similar mechanism to mammalian estrogens, lowering blood pressure by increasing dilatory responses to ACh. present study also demonstrated that resveratrol was able to prevent ovariectomy-induced decreases in femoral bone strength.

RE.CNT 49

- (3) Anderson, J; Proc Soc Exp Biol Med 1998, V217, P345 CAPLUS
- (4) Anthony, M; J Nutr 1996, V126, P43 CAPLUS
- (5) Arjmandi, B; J Nutr 1996, V126, P161 CAPLUS
- (7) Baysal, K; Clin Exp Pharmacol Physiol 1996, V23, P537 CAPLUS
- (8) Bolego, C; Life Sci 1997, V60, P2291 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
T.9
      ANSWER 7 OF 9 CAPLUS COPYRIGHT 2002 ACS
       Resveratrol and red wine consumption
  TΤ
 AN
       2000:4052 CAPLUS
  DN
       132:333848
 ΤI
       Resveratrol and red wine consumption
 ΑU
       Slater, I.; Odum, J.; Ashby, J.
      Zeneca Central Toxicology Laboratory, Macclesfield, SK10 4TJ, UK
 CS
      Hum. Exp. Toxicol. (1999), 18(10), 625-626
      CODEN: HETOEA; ISSN: 0960-3271
 PB
      Stockton Press
 DT
      Journal
 LΑ
      English
      The effects of orally given resveratrol on 3 estrogen-sensitive
 AΒ
      targets (uterus, blood cholesterol, bone d.) were studied in
      ovariectomized rats. Resveratrol was given at 0.03 mg/kg/day
      (dose estd. from moderate red wine consumption in humans), 3, or 70
      mg/kg/day in peanut oil for 14 days. Rats given 0.45 mg estradiol/kg/day
      s.c. served as pos. controls. The animals were sacrificed 24 h after the
      last doses. The uterus wt., bone mineral d. (BMD), and blood
      plasma HDL-cholesterol were detd. Estradiol increased the uterine wt.,
      decreased HDL-cholesterol levels, and had no effect on BMD.
      Resveratrol had no effect on these 3 parameters. Thus, the
      estrogenic super-agonist activity obsd. earlier in MCF-7 cells in vitro
 is
     not predictive of the in vivo activity. It is unlikely, that the
      cardiovascular protective effects of red wine consumption are mediated
via
      an estrogenic pathway.
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L9
     Resveratrol stimulates the proliferation and differentiation of
TΙ
     osteoblastic MC3T3-E1 cells
AN
     1999:36541 CAPLUS
DN
     130:232445
ΤI
     Resveratrol stimulates the proliferation and differentiation of
     osteoblastic MC3T3-E1 cells
     Mizutani, Kenichi; Ikeda, Katsumi; Kawai, Yasuhiro; Yamori, Yukio
ΑU
     Department of Environmental Preservation and Development, Graduate School
    of Human and Environmental Studies, Kyoto University, Kyoto, 6068501,
     Japan
SO
    Biochem. Biophys. Res. Commun. (1998), 253(3), 859-863
     CODEN: BBRCA9; ISSN: 0006-291X
PΒ
    Academic Press
DT
     Journal
LΑ
     English
    Nutritional and pharmacol. factors are needed to prevent bone
    loss that occurs with increasing age. The chem. compds. that act on
    bone metab. as nutrients in food, however, are poorly understood.
    The effect of resveratrol, a natural phytoestrogen, on the
    proliferation and differentiation of osteoblastic MC3T3-E1 cells was
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studied. Resveratrol dose-dependently increased DNA synthesis (10-9-10-7 M) of MC3T3-E1 cells. In addn., resveratrol increased alk. phosphatase (ALP) activity and prolyl hydroxylase activity of MC3T3-E1 cells (10-6-10-5 M). Moreover, the antiestrogen tamoxifen eliminated the stimulation of MC3T3-E1 cells (proliferation and ALP activity) by resveratrol. On the other hand, resveratrol inhibited prostaglandin E2 prodn. in MC3T3-E1 cells $(10-8-10-6\ \mathrm{M})$. Our present study is the first to demonstrate that resveratrol directly stimulates cell proliferation and differentiation of osteoblasts. (c) 1998 Academic Press. 37

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- Is resveratrol an estrogen agonist in growing rats? TТ
- AN 1999:11133 CAPLUS
- DN 130:177389
- TΙ Is resveratrol an estrogen agonist in growing rats?
- Turner, Russell T.; Evans, Glenda L.; Zhang, Minzhi; Maran, Avudaiappan; ΑU Sibonga, Jean D.
- Departments of Orthopedics, Biochemistry, and Molecular Biology, Mayo Graduate School of Medicine, Rochester, MN, 55905, USA
- SO Endocrinology (1999), 140(1), 50-54 CODEN: ENDOAO; ISSN: 0013-7227
- PB Endocrine Society
- DΨ Journal
- LA English
- Trans-3,4,5-trihydroxystilbene (resveratrol), a polyphenolic AB compd. found in juice and wine from dark-skinned grape cultivars, was recently shown to bind to estrogen receptors in vitro, where it activated transcription of estrogen-responsive reporter genes. The purpose of this 6-day study in weanling rats was to det. the dose-response (1, 4, 10, 40, and 100 .mu.g/day) effects of orally administered resveratrol on estrogen target tissues. The solvent (10% ethanol) had no significant effect on any measurement or derived value. 17.beta.-Estradiol treatment (100 .mu.g/day) decreased the growth rate, final body wt., serum cholesterol, and radial bone growth (periosteal bone formation and mineral apposition rates) at the tibia-fibula synostosis. In the uterus, 17.beta.-estradiol treatment increased wet wt., epithelial cell height, and steady-state mRNA levels for insulin-like growth factor I. In contrast, resveratrol treatment had no significant effect on body wt., serum cholesterol, radial bone growth, epithelial cell height, or mRNA levels for insulin-like growth factor I. Resveratrol treatment resulted in slight increases in uterine wet wt. but significance was achieved at the 10-.mu.g dose only. A second expt. was performed to det. whether a high dose of resveratrol (1000 .mu.g/day) antagonizes the ability of estrogen to lower serum cholesterol. As was shown for the lower doses, resveratrol had no effect on body wt., uterine wet wt., uterine epithelial cell height, cortical bone histomorphometry, or serum cholesterol. 17.beta.-Estradiol significantly lowered serum cholesterol, and this response was antagonized by cotreatment with resveratrol. These in vivo results suggest, in contrast to prior in vitro studies, that

resveratrol has little or no estrogen agonism on reproductive and nonreproductive estrogen target tissues and may be an estrogen antagonist.

RE.CNT 25

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=> save temp all bone/l L# LIST L1-L9 HAS BEEN SAVED AS 'BONE/L'

| => logoff hold
COST IN U.S. DOLLARS | CINCE DITE | |
|--|------------------------------|---------------------------|
| FULL ESTIMATED COST | SINCE FILE
ENTRY
19.61 | TOTAL
SESSION
31.90 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| CA SUBSCRIBER PRICE | ENTRY
-2.48 | SESSION
-2.48 |
| CECCTON | | 2.10 |

SESSION WILL BE HELD FOR 60 MINUTES STN INTERNATIONAL SESSION SUSPENDED AT 06:58:00 ON 15 JAN 2002